

Degree Sequences of Partial 2-trees

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In 2008, Bose, Dujmović, Krizanc, Langerman, Morin, Wood, and Wuhler characterized the degree sequences of 2-trees. We extend their results and present a characterization of the degree sequences of partial 2-trees, that is, spanning subgraphs of 2-trees. We furthermore address how our search for the degree sequences of partial 2-trees, which are also known as series-parallel graphs, originates from a related edge-coloring problem. If time permits, we include results regarding the degree sequences of spanning subgraphs of other families of interest, such as grids.

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